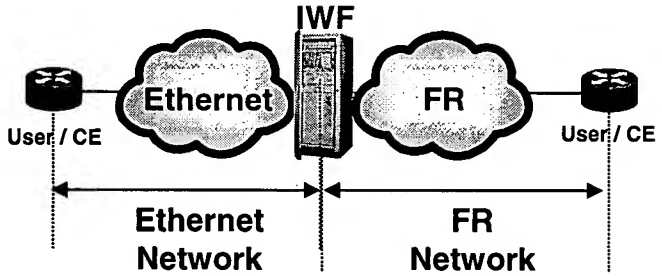

FIGURE 1A

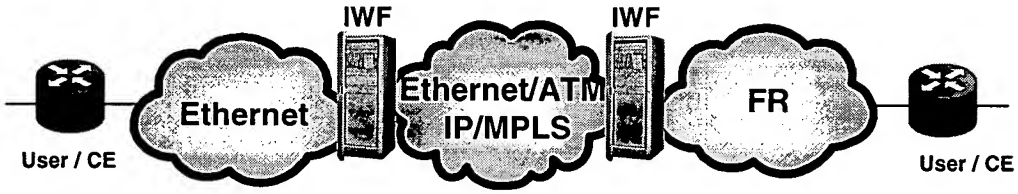

FIGURE 1B

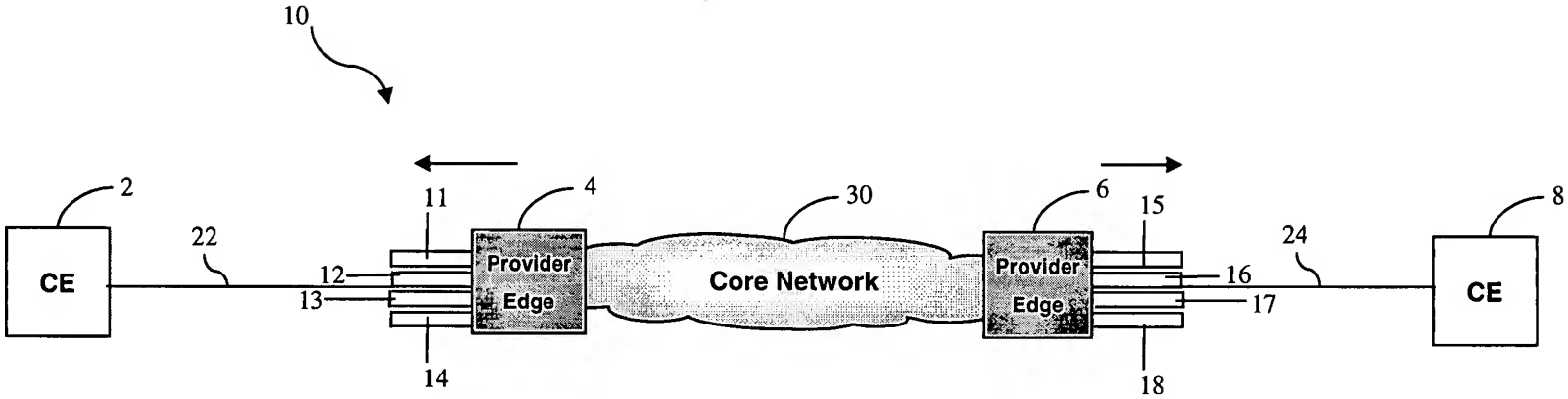
10
2
CE
22
11
12
13
14
4
Provider
Edge
30
Core Network
6
Provider
Edge
15
16
17
18
24
8
CE

FIGURE 2

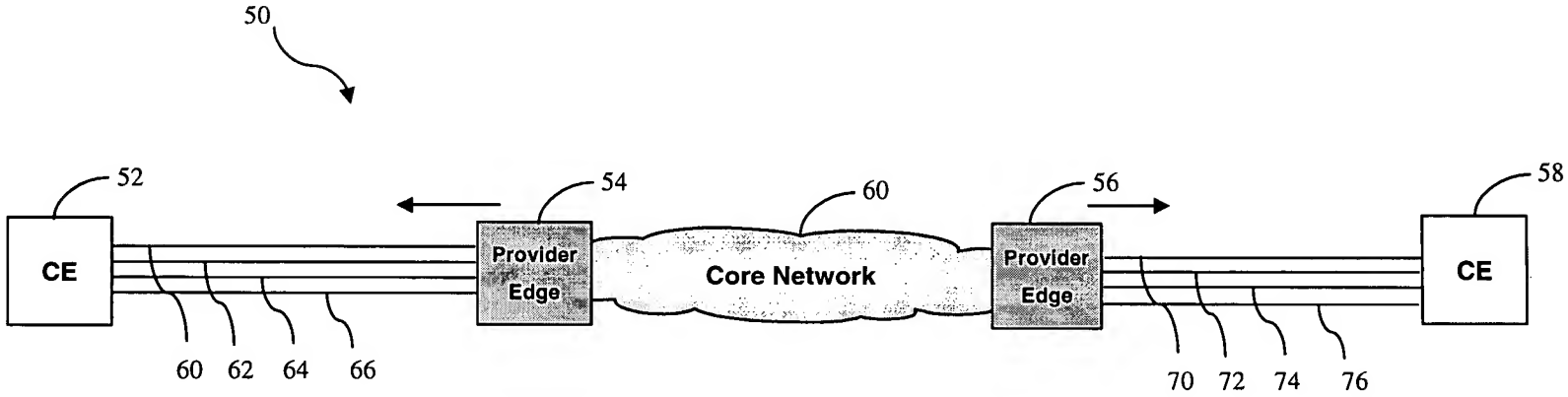
50
52
54
60
56
58
CE
Provider Edge
Core Network
Provider Edge
CE
60
62
64
66
70
72
74
76

FIGURE 3

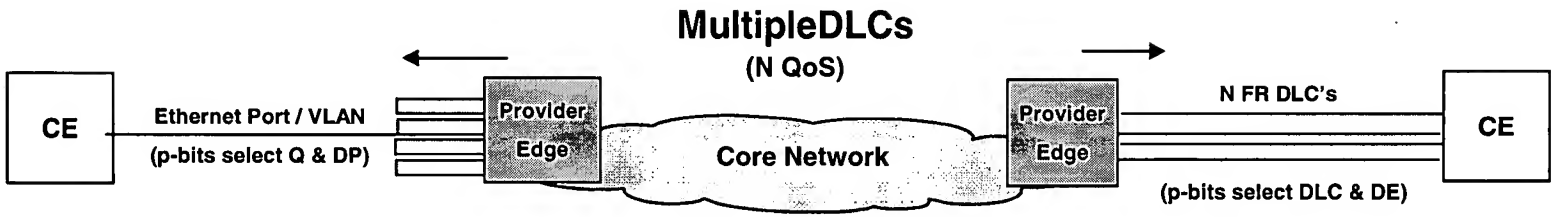
MultipleDLCs
(N QoS)
CE
Ethernet Port / VLAN
(p-bits select Q & DP)
Provider
Edge
Core Network
Provider
Edge
N FR DLC's
(p-bits select DLC & DE)
CE

FIGURE 4

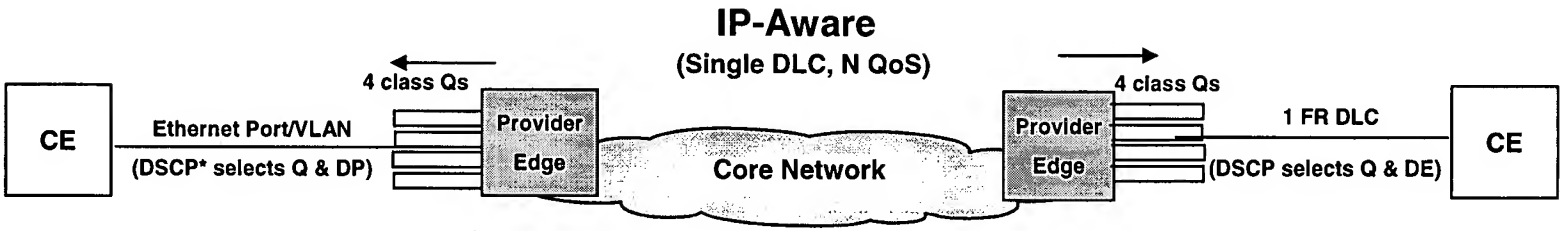
IP-Aware
(Single DLC, N QoS)
4 class Qs
4 class Qs
CE
Ethernet Port/VLAN
(DSCP* selects Q & DP)
Provider
Edge
Core Network
Provider
Edge
1 FR DLC
(DSCP selects Q & DE)
CE

FIGURE 5

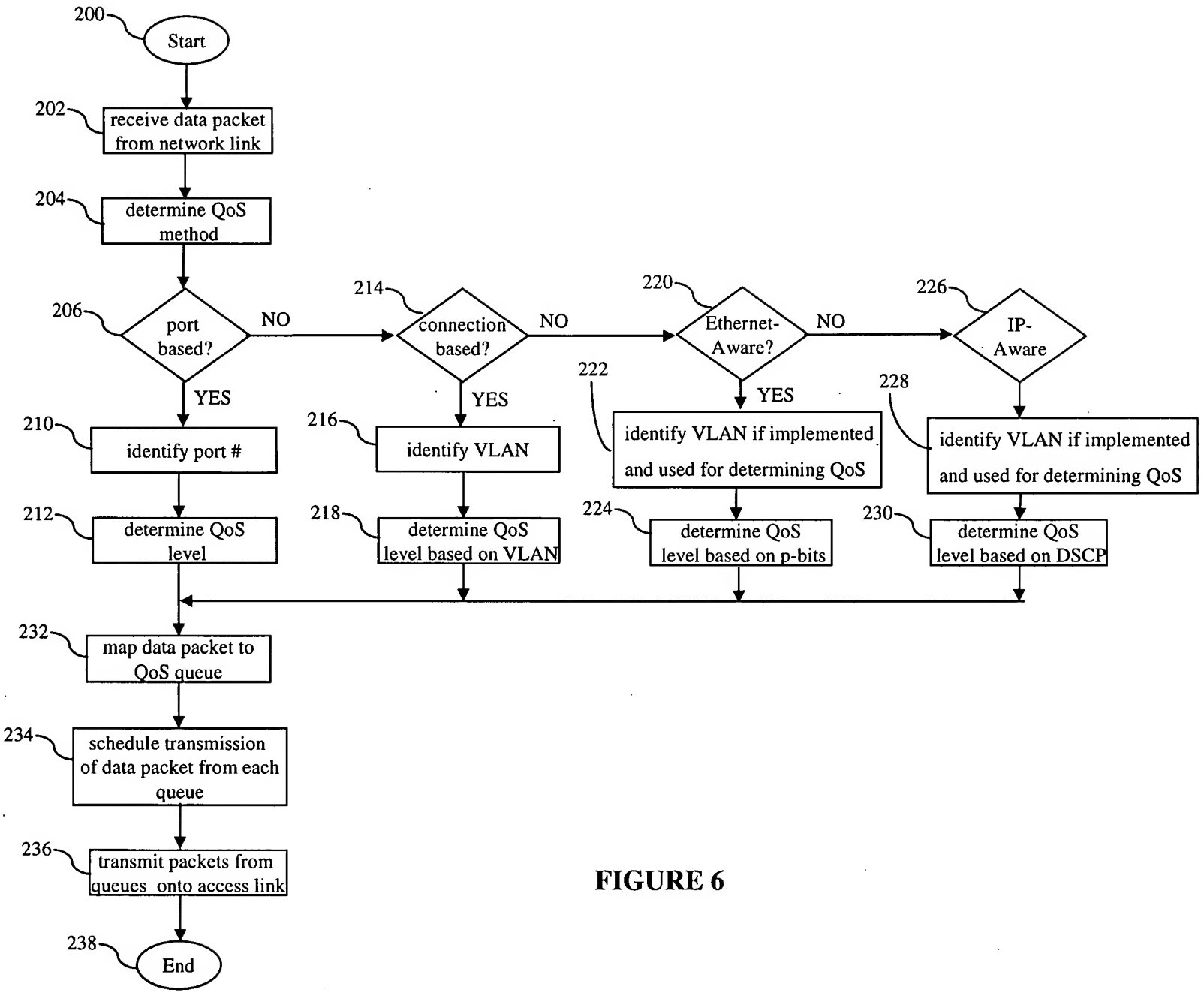
200
Start
202
receive data packet from network link
204
determine QoS method
206
port based?
NO
214
connection based?
NO
220
Ethernet-Aware?
NO
226
IP-Aware
YES
YES
YES
210
identify port #
216
identify VLAN
222
identify VLAN if implemented and used for determining QoS
228
identify VLAN if implemented and used for determining QoS
212
determine QoS level
218
determine QoS level based on VLAN
224
determine QoS level based on p-bits
230
determine QoS level based on DSCP
232
map data packet to QoS queue
234
schedule transmission of data packet from each queue
236
transmit packets from queues onto access link
238
End

FIGURE 6